Activitate ştiinţifică şi de cercetare

Dr. Ing. Dan Moldovanu

Lista lucrărilor relevante selectate:

1. **Dan Moldovanu,** Nicolae Burnete, Kocsis Levente Botond, Doru Baldean, EVALUATION OF REGULATED AND NON-REGULATED POLLUTANT EMISSIONS AT COLD START AND DURING WARM-UP FOR A COMPRESSION IGNITED ENGINE THAT WORKS WITH BLENDS, Congresul AMMA 2013, publicat în INMATEH 2014, Agricultural and Mechanical Engineering.
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6. Florin Mariasiu, Nicolae Vlad Burnete, **Dan Moldovanu**, Bogdan O. Varga, Calin Iclodean, Levente Kocsis, EFFECTS OF BIOETHANOL ULTRASONIC GENERATED AEROSOLS APPLICATION ON DIESEL ENGINE PERFORMANCES, Thermal Science, International Scientific Journal, **citation impact factor 1,222**. Data acceptare: 2015-07-20, Referinta DOI: 10.2298/TSCI140703108M.
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10. **Dan Moldovanu**, Florin Mariașiu, and Norbert Bagameri. "Influence of swirl and tumble motion inside the combustion chamber of a compression ignited engine on vertices formation." In MATEC Web of Conferences, vol. 184, p. 01022. EDP Sciences, **2018**, ISI Proceedings, Scopus.

Teză de doctorat:

Simularea proceselor funcționale ale unui motor cu ardere internă ce funcționează cu biocombustibili – susținută în 2011.

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1) **Moldovanu Dan**, Teoria sistemelor și Automatizări, 2019, Ed. Napoca Star, 101 pag., ISBN 978-606-690-924-2, 2019.
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Participare în colective de cercetare:

Director de proiect:

1) **Contract cu TVA 12564/20.05.2019** – Evaluarea unui combustibil din punctul de vedere al consumului de combustibil, putere efectivă, moment efectiv, consum specific efectiv, Valoare contract 16.100 Euro.
2) **Nanolub** – Posibilități de dezvoltare a unor lubrifianți biodegradabili pe bază de nanomateriale, Proiecte Intern de Cercetare-Dezvoltare-Inovare ale Universității Tehnice din Cluj-Napoca competiția 2014-2015 CI 27126/2014, 22.350 lei.

Membru:

1) **PN-III-P2-2.1-CI-2018-1227, VINEFUEL** Îmbunătățirea eficienței de consum a tractoarelor in agregat cu echipamentele fitosanitare, utilizate in plantațiile viticole din podgoria Târnave, **director Lect. PhD. Eng. Adela Borzan**

2) **Contract cu TVA 17433/17.07.2018** în domeniul cercetării, testare motoare cu ardere internă pentru evidențierea depunerilor pe piesele motorului – **director Prof. Dr. Ing. Bogdan Varga**

3) **Contract cu TVA 14120/2018 (cu Banca Europeană de Investiții, Jaspers - Joint Assistance to Support Projects in European Regions)** în vederea elaborării caietelor de sarcini pentru achiziționarea de material rulant (Autobuze electrice, Tramvaie, Troleibuze) pentru localități din România – **director Prof. Dr. Ing. Bogdan Varga**

4) Grant **POC-A1-A1.2.3-G-2015**, ID P_40_333, "Advanced Technologies for Smart Urban Vehicles - URBIVEL". Project Partnerships for knowledge, Director: Prof.dr.ing. Claudia Steluța MARTIS, budget 3.300.000 Euro, 2016-2018.

5) **Contract cu TVA 18887/02.08.2017** în domeniul cercetării combustibililor și a performanțelor acestora în exploatare (Testarea 100.Plus)– **director Prof. Dr. Ing. Bogdan Varga**

6) Studii ale unui motor cu aprindere prin comprimare cu injecție directă de motorină și etanol, Proiecte Intern de Cercetare-Dezvoltare-Inovare ale Universității Tehnice din Cluj-Napoca competiția 2017-2018, 16672/12.07.2017, **- director Sef Lucr.dr.ing. Nicolae Vlad BURNETE**

7) Creșterea eficienței energetice a bioalcoolilor prin procedeu inovativ de fumigare, Proiecte Intern de Cercetare-Dezvoltare-Inovare al Universității Tehnice din Cluj-Napoca competiția 2015-2016, **C.I. 11/1.2./2015, - director Sef Lucr.dr.ing. Doru BĂLDEAN**

8) **Contract cu TVA 71/2013** în domeniul cercetării combustibililor și a performanțelor acestora în exploatare LUK Oil – **director Prof. Dr. Ing. Bogdan Varga**

9) **EnergoEcoFarm 2007** – Studii privind utilizarea combustibililor pe bază de uleiuri vegetale ca și sursă de energie regenerabilă pentru fermele agricole – **director Prof. Dr. Ing. Nicolae Burnete**

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